

## CLAIMS

1. An acoustic liner (1), characterized in that it comprises a layer (3) of a metallic foam.
- 5 2. An acoustic liner according to claim 1, characterized in that it further comprises a liner core (2).
3. An acoustic liner according to claim 2, characterized in that it has a non-linearity factor within a range between 1.0 and 3.0.
- 10 4. An acoustic liner according to claim 3, characterized in that the non-linearity factor is within a range between 1 and 2.5.
5. An acoustic liner according to claim 4, characterized in that the non-linearity factor is within a range between 1.5 and 2.0.
- 15 6. An acoustic liner according to claim 2, characterized in that a first surface of said metallic foam layer (3) is attached to one side of said liner core (2).
- 20 7. An acoustic liner according to claim 2, characterized in that the liner core (2) is a honeycomb core.
8. A metallic liner according to claim 2, characterized in that the liner core (2) is a core of metallic foam.
- 25 9. An acoustic liner according to claim 2, characterized in that it further comprises a perforated sheet (4) attached to the metallic foam layer (3).
- 30 10. An acoustic liner according to claim 1, characterized in that the metallic foam layer (3) is arranged to withstand temperatures above about 400°C.

11. An acoustic liner according to claim 10, characterized in that the metallic foam layer (3) is arranged to withstand temperatures around 700°C.
- 5 12. An acoustic liner according to claim 11, characterized in that the metallic foam layer (3) comprises a metal or metal alloy including Nickel, Titanium and/or Chromium.
- 10 13. An acoustic liner according to claim 1, characterized in that the metallic foam is at least partly open-porous.
14. Use of a liner comprising a layer (3) of a metallic foam as an acoustic liner.
- 15 15. Use of liner according to claim 14, characterized in that the liner is used in a hot stream environment.
16. Use of a liner according to claim 15, characterized in that it is used in a hot area of an aircraft engine.
- 20 17. Method for manufacturing an acoustic liner (1), characterized in that a top sheet (5) including a metallic foam layer (3) is brazed onto one side of a liner core (2).
- 25 18. Method according to claim 17, characterized in that a perforated sheet (4) is brazed onto the foam layer (3) in forming the top sheet (5).